Cold QCD Topical Group Plans

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Cold QCD Topical Group: Current Objectives

Forward sPHENIX LOI (charge by B. Mueller)
Cold + Hot OCD



EIC Detector LOI (no current charge)



Forward sPHENIX LOI

1	Phy	vsics Case	
	1.1	Formation of Quark Gluon Plasma	
	1.2	Formation of Hadrons	
	1.3	Structure of Nucleons and Nuclei	
2	Det	ector Design	
	2.1	Forward-sPHENIX Instrumentation Overview	
	2.2	Magnet system and field shaping	
	2.3	Tracking system	
	2.4	Electromagnetic Calorimeter	
	2.5	Hadron Calorimeter	
	2.6	Evolution to an Electron Ion Collider Detector	
3	Det	ector Performance	Can we assume a
	3.1	Luminosity and running time assumptions	510 CoV pp rup?
	3.2	Forward tracking performance	or Gev pp runs
	3.3	Tracking in high multiplicity, i.e. Heavy Ion collisions	
	3.4	Calorimeter performance and effect of Plug Door	
	3.5	Forward jet energy and angle (eta, phi) resolution	Who will help
	3.6	Physics analysis: Drell Yan	
	3.7	Physics analysis: Heavy Ions (what observable?)	with A+A case!